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(54) Title: **SMALL DROPLETS RECOVERY SYSTEM**

(57) **Abstract:** A system for separating an emulsion fluid into a recovered fluid and a purified fluid. The emulsion fluid comprises a continuous phase and a dispersed phase. The purified fluid is essentially constituted of the continuous phase. The system comprises a vessel at an inlet of which the emulsion fluid may flow. The system further comprises one or more coalescing element. Each coalescing element allows to coalesce at least a portion of the dispersed phase into large drops further detached from the coalescing element upon a flow of the emulsion fluid. The system further comprises one or more guiding mean. Each guiding mean is associated with one coalescing element to guide the detached large drops for further recovery.

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